Best Available Copy

FEB 2 1 2003

DIVISION

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application

IT FED 27 PH 10: 21

Jeffrey W. Carr 10/002,483

Confirm. No.: 2209

Filed:

Inventor:

Appl. No.:

November 1, 2001

Method for Atmospheric Pressure Reactive Atom Title:

Plasma Processing for Surface Modification

PATENT APPLICATION

Art Unit:

1763

Examiner:

Allan W. Olsen

Customer No. 23910

CERTIFICATE OF TRANSMISSION/MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being facsimile transmitted to the USPTO [total number of pages transmitted ____] or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

aura Hulac

Signature Date: 2-17-06

REQUEST FOR REFUND OF EXCESS FEES PAID UNDER 37 C.F.R. §1.26

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.26(a), Applicant requests refund of a fee paid in excess of that required with respect to the above-identified patent application.

A fee of \$180.00 was paid for an Information Disclosure Statement as evidenced by the

A copy of the returned check; or A copy of a deposit account charge statement.

Applicant respectfully requests a refund of \$ 180.00 for the excess fee paid.

Pursuant to 37 C.F. R. § 1.26(b) this request for refund is being submitted within two years from the date of payment of the fee paid in excess as identified above.

- 1 -

X A copy of the Information Disclosure Statement as filed, with International Search Report, is attached.

Please credit the refund to our Deposit Account No. <u>06-1325</u>. A duplicate copy of this document is enclosed.

Respectfully submitted,

Date: 2/17/05

David T. Xue Reg. No. 54,554

Customer No. 23910 FLIESLER MEYER LLP Four Embarcadero Center, Fourth Floor San Francisco, California 94111-4156 Telephone: (415) 362-3800 In re Application

Inventor(s):

Jeffrey W. Carr

Appln. No.: Confirm. No.: 10/002,483

Filed:

2209

Title:

November 1, 2001

METHOD FOR ATMOSPHERIC PRESSURE REACTIVE ATOM PLASMA

PROCESSING FOR SURFACE MODIFICATION

PATENT APPLICATION

1763 Art Unit:

Examiner: Allan W. Olsen

Atty. Docket No.: CARR-01000US2

Customer No. 23910

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited in the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450,

Alexandria, VA 22313-1450, on the date shown below.

?/02/2005 YPOLITE1 00000025 10002483

Laura Hulac -

_Signature Date:

i FC:1806

180.00 OP

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56. If this is a continuation, divisional or continuation-in-part application, it is understood that the Examiner will consider all information which was considered by the Office in a parent application. MPEP §609. Such information therefore is not listed herein unless it is desired that the information be printed on a patent issuing from the subject application.

Enclosed with this statement are the following:

- Form PTO-1449. The Examiner is requested to initial the form and return it to the undersigned in accordance with M.P.E.P. §609.
- Copies of cited U.S. patents and publications are not enclosed. However, copies of cited foreign patent documents and non-patent literature are enclosed in accordance with 37 CFR 1.98(a)(2), as required, except for those items designated by an asterisk (*), which were previously submitted by the applicant in a parent application, from which benefit under 35 U.S.C. §120 is claimed, with an *Information Disclosure Statement* submitted in the parent application which complies with the September 8, 2000 or subsequent revision of 37 C.F.R. §1.98(a-c), as allowed under 37 C.F.R. §1.98(d)(1).
- If any of the cited/submitted documents is in a foreign language, a concise explanation of relevance is provided pursuant to 37 C.F.R. §1.98(a)(3)(i). For foreign language

Attorney Docket No.: CARR-01000US2

DXue/Carr/1000/1000US2/Information Disclosure Statement

ustment date: 05/18/2006 SDIRETA1 02/2005 YPOLITE1 00000025 10002483 -180.00 OP 01 FC:1806

05/18/2006 SDIRETR1 0008123500 Name/Number:10002483 \$180.00 CR

documents cited in a search report by a foreign patent office, the requirement for a concise explanation of relevance is satisfied by the submission herewith of an English language version of the search report. MPEP §609A(3). If a written English-language translation of a non-English language document, or portion thereof, is within the §1.56(c), a copy of the translation accompanies this statement, 37 C.F.R. §1.98(a)(3)(ii), and satisfies the requirement for a concise explanation of relevance, MPEP §609A(3).

Information Disclosure Statement was cited in a communication from a foreign patent individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

This statement should be considered because:

- ___ 37 C.F.R. §1.97(b). This statement qualifies under 37 C.F.R. §1.97, subsection (b) because:
 - (1) It is being filed within three months of the filing date of an application other than a continued prosecution application under § 1.53(d);
 - (2) It is being filed within 3 months of entry of a national stage;
 - (3) It is being filed before the mailing date of the first Office Action on the
 - (4) It is being filed before the mailing date of the first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. §1.114.
- 37 C.F.R. §1.97(c). Although it may not qualify under subsection (b), this statement qualifies under 37 C.F.R. §1.97, subsection (c) because:
 - (1) It is being filed before the mailing date of a FINAL Office Action, a Notice of Allowance, or an action that otherwise closes prosecution in the subject application, whichever occurs first.
 - -- AND (check at least one of the following) --
 - (1) It is accompanied by a STATEMENT as set forth in 37 C.F.R. -- OR --
 - X (2) It is accompanied by the \$180 fee set forth in 37 C.F.R. §1.17(p).
- 37 C.F.R. §1.97(d). Although it may not qualify under subsection (b) or (c), this statement qualifies under 37 C.F.R. §1.97, subsection (d) because:
 - (1) It is being filed on or before payment of the Issue Fee;
 - (2) It is accompanied by a STATEMENT as set forth in 37 C.F.R. §1.97(e);
 (3) It is accompanied by the S188 S
 - (3) It is accompanied by the \$180 fee set forth in 37 C.F.R. §1.17(p).

Fee Authorization. The Commissioner is hereby authorized to charge any deficiencies or credit any overpayment to Deposit Account No. 06-1325. A duplicate copy of this

Respectfully submitted,

FLIESLER MEYER LLP

Date: 11/30/05	_
----------------	---

By: _

David T. Xue Reg. No. 54,554

Customer No. 23910 FLIESLER MEYER LLP Four Embarcadero Center, Fourth Floor San Francisco, California 94111-4156

Telephone: (415) 362-3800 Facsimile: (415) 362-2928

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (Substitute) PATENT AND TRADEMARK OFFICE Information Disclosure Statement BY APPLICANT	Antomey Docker Number CARR-01000US2	Seria/Patent Number 10/002,483	
(Use several sheets if necessary) FEB 2 1 2003	Applicant/Patent Owner Jeffrey W. Carr Filing/Issue Date November 1, 2001	Group An Unit 1763	

Examiner	D	FOREIGN PATEN				
Initial	Document Number	Publication Date	Country	Class	Subclass	Trans-
	International Search		<u> </u>			Yes N
	Report Mailed 31 Oct 2005		PCT .			

Examiner	ı
·	
10	Date Considered
conformance and not asset to considered, whether or not citation is in a	
and not considered. Include copy of this form with	onformance with MPEP 609. Draw line through the
*EXAMINER: Initial if citation considered, whether or not citation is in conformance and not considered. Include copy of this form with next comistance of the copy of	munication to applicant
23 - Copy not submitted because it was submitted in price and	
*2 = Copy not submitted because it was submitted in prior application SN	_/, filed 20 "
because it was submitted in prior application SN	relied on under 35 HSC \$120
	filed 20 relied 20 2120.
	filed 20 relied on under 35 USC §120.

10/384,501

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

	· :
To: SHELDON R. MEYER FLIESLER MEYER LLP	PCT
FOUR EMBARCADERO CENTER RECEIVED SAN FRANCISCO, CA 94111	THE WRITTEN OPPHONES TO THE WRITTEN OPPHONE
NOV 0 3 200	SEARCHING AUTHORITY, OR THE DECLARATION
FLIESLER MEYER	Date of mailing
Applicant's or agent's file reference CARR01003WO0	Glass/month/sear) 3-1 OCT 2005 FOR FURTHER ACTION See paragraphs Land 4 below.
International application No. PCT/US04/06773	International filing date
Applicant RAPT INDUSTRIES, INC.	(day/month/year) 05 March 2004 (05.03.2004)
have been established and are transmitted herewith.	arch report and the written opinion of the International Searching Authority
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the cla	simp of the
When? The time limit for filing such amendments is	s normally two months from the date of transmittal of the international
Where? Directly to the International Bureau of WIDE	224.1
1211 Geneva 20, Switzerland, Facsimile No. For more detailed instructions, see the notes on the a	: (41-22) 338.82.70
The applicant is hereby notified that no interest in	. !
3. With regard to the protest against payment of (an) addit	V IIICIII AUUII A CATCOING Authority in
are protest together with the decision thereon has been	
no decision has been made yet on the protest; the app	e decision thereon to the designated Offices.
Shortly after the expiration of 18 and 19	
preparations for international publication	notice of withdrawal of the international application, or of the priority bis. 1 and 90bis.3, respectively, before the completion of the technical
International Bureau The International Bureau The International Bureau	he written opinion of the International Searching Authority to the of such comments to all designated Offices unless an international these comments would also be made available to the public but not
examination must be filed if the combined to the only in respect of	f some designated Offices, a demand for international preliminary into the national phase until 30 months from the priority date (in months from the priority date, perform the prescribed acts for entry
in respect of other designated Offices, the time limit of 10 months (s	-1-4 3 79
Volume II, National Chapters and the WIPO Internet site.	reater) will apply even if no demand is filed within 19 months. icable time limits, Office by Office, see the PCT Applicant's Guide,
me and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US	Authorized officer
Commissioner for Patents P.O. Box 1450	Mark H. Paschall
Alexandria, Virginia 22313-1450 Sitnile No. (571) 273-3201	Telephone No. 571-272-4784
PCT/ISA/220 (January 2004)	CARR-01000052 (See notes on accompanying sheet)

Accordism. Intil Search Resport tos?

Jers Cie Merentur 3 zanc

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CARR01003WO0	FOR FURTHER ACTION	as well as, where	om PCT/ISA/220 applicable, item 5 below.
International application No. PCT/US04/06773	International filing date (day, 05 March 2004 (05.03.2004)	month (sear)	(Earliest) Priority Date (day/month/sea
Applicant RAPT INDUSTRIES, INC.			07 March 2003 (07.03.2003)
a. With regard to the language, the the international a translation of the of a translation fine b. With regard to any nucleotid Certain claims were found to Unity of invention is lacking With regard to the title, the text is approved as submitted the text has been established by	by a copy of each prior art documentational search was carried application in the language in whe international application into mished for the purposes of international acid sequence and/or amino acid sequence insearchable (See Box No. II)	out on the basis nich it was filed. national search (Fidisclosed in the i	nis réport.
With regard to the abstract, the text is approved as submitted	by the applicant		:
the text has been established, ac may, within one month from the With regard to the drawings.	cording to Rule 38.2(b), by this date of mailing of this internation	mai search report	pears in Box No. IV. The applicant, submit comments to this Authority.
as suggested by the appl	shed with the abstract is Figure icant. rity, because the applicant failed		
as selected by this Autho	rity, because this figure better cl	a to suggest a figurers and suggest the figure in the suggest and suggest the suggest and suggest a figure in the suggest and suggest a figure in the suggest and suggest a figure in the suggest a figure in the suggest a figure in the suggest and suggest a figure in the suggest a figure in the suggest a figure in the suggest and suggest a fi	avention.
b none of the figures is to be published. DCT/ISA/210 (first sheet) (April 2005)	hed with the abstract.		

INTERNATIONAL SEARCH REPORT International application No. PCT/US04/06773 CLASSIFICATION OF SUBJECT MATTER IPC(7) : B23K 10/00 US CL 219/121.4, 121.41, 121.59; 204/298.37; 315/111.51 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) U.S.: 219/121.4, 121.41, 121.59; 204/298.37; 315/111.51 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DOCUMENTS CONSIDERED TO BE RELEVANT Category • Citation of document, with indication, where appropriate, of the relevant passages US 6,218,640 B1 (SELITSER) 17 APRIL 2001, SEE ENTIRE DOCUMENT. Relevant to claim No. 1-46 Y 18-20 US 3,953,704 A (BEJAT ET AL) 27 APRIL 1976, SEE ENTIRE DOCUMENT. Y 1-46 US 6,262,523 BI (SELWYN ET AL) 17 JULY 2001, SEE ENTIRE DOCUMENT, Α 1-46 US 6,424,091 B1 (SAWADA ET AL) 23 JULY 2002, SEE ENTIRE DOCUMENT Α 1-46 Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority date document defining the general state of the art which is not considered to be of "A. and not in conflict with the application but cited to understand the particular relevance principle or theory underlying the invention earlier application or patent published on or after the international filing date "E" "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step "L" document which may throw doubts on priority claim(s) or which is cited to when the document is taken alone establish the publication date of mother citation or other special reason (as "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined document referring to an oral disclosure, use, exhibition or other means უი" with one or more other such documents, such combination being obvious to a person skilled in the art document published prior to the international filing date but later than the priority date claimed document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 29 September 2005 (29.09.2005) Name and mailing address of the ISA/US 2005 Authorized Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 571-272-4784 Facsimile No. (571) 273-3201 Form PCT/ISA/210 (second sheet) (April 2005)

PATENT COOPERATION TREATY

From the	ENT COOPERATION TREATY
INTERNATIONAL SEARCHING AUTHORITY To: SHELDON R. MEYER FLIESLER MEYER LLP FOUR EMBARCADERO CENTER	PCT
FOURTH FLOOR SAN FRANCISCO, CA 94111	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY
	(PCT Rule 43bis.1) Date of mailing
Applicant's or agent's file reference	(day/month/year) 31 UU 2005
CARR01003WO0	FOR FURTHER ACTION
International districtions of the second sec	See paragraph 2 below
PCT/ISO/106772	lional filing date (day/month/year) Priority date (day/month/year)
International Patent Classification (IPC) or both na	ch 2004 (05.03.2004) 07 March 2003 (07.03.2003)
PC(7): B23K 10/00 and US C1: 210/121 4 121	mond classification and IPC
PC(7): B23K 10/00 and US Cl.: 219/121.4, 121.4 Applicant	1, 121.59, 204/298.37; 315/111.51
LAPT INDUSTRIES, INC.	
200.	
1. This opinion contains indications relating to the	following items
Box No. I Basis of the opinion	A STORY ME INCHES
Box No. II Priority	
Tron-establishment of c	opinion with regard to novelty, inventive step and industrial applicability
Lack of unity of invent	ion
Box No. V Reasoned statement und applicability, citations a	der Rule 43 <i>bis</i> 1(a)(i) with regard to novelty, inventive step or industrial and explanations supporting such statement
Box No. VI Certain documents cited	such statement
	!
The state of the s	the international application
FURTHER ACTION	1 .
If a demand for international preliminary examin	("IPEA") except that this does not apply where the applicant chooses an the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) g Authority will not be so considered.
If this opinion is, as provided above, considered to PEA a written reply together, where appropriate, of Form PCT/ISA/220 or before the expiration of 2 for further options, see Form PCT/ISA/220.	to be a written opinion of the IPEA, the applicant is invited to submit to the with amendments, before the expiration of 3 months from the date of mailing 2 months from the priority date, whichever expires later.
or further details, see notes to Form PCT/ISA/220.	
and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Date	of completion of this opinion Authorized Officer
Commissioners	
P.O. Box 1450 Alexandria, Virginia 22313-1450 le No. (\$71) 273-3201	eptember 2005 (29.09.2005) Fark H. Paschall
/ISA/237 (cover sheet) (April 2005)	Telephone No. 571-272-4784

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/06773

Box No. 1 Basis of this opinion	PCT/US04/06773
Dasis of this opinion	
1. With regard to the learning	
1. With regard to the language, this opinion has been established on the basis of: the international application in the contraction in the contraction in the contraction in the contraction.	!
and international application in the language in which it was filed	
a translation of the international application into, which is the languinternational search (Rules 12.3(a) and 23.1(b)).	1800 of a translation of the same
23.1(b)).	age of a translation furnished for the purpose
 With regard to any nucleotide and/or amino acid sequence disclosed in the interior, this opinion has been established on the basis of: 	Enational and trace
opinion has been established on the basis of:	ruational application and necessary to the cla
a. type of material	·
a sequence listing	1
table(s) related to the sequence listing	į
to the ocquence using	
b. format of material	<u> </u>
on paper	į.
in electronic form	:
is deciding form	i i
c. time of filing/furnishing	1
	;
contained in the international application as filed.	;
filed together with the international application in electronic form.	į.
furnished subsequently to this Authority for the purposes of search.	:
Parposes of Search,	!
In addition, in the case that	:
or furnished the manifest and one version or copy of a sequence listing	g and/or table(s) relating thereto has been St.
and go beyond the application as filed, as appropriet	or additional copies is identical to that in the
Additional comments:	e, were furnished.
	:
	:
	:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/06773

	NG AUTHORITY	-
Box No. V Reasoned statement under Ru applicability; citations and ex	tle 43 bis.1(a)(i) with regard to novelty, in planations supporting such statement	ventive step or industrial
1. Statement		
Novelty (N)	Claims 1-46	
	Claims NONE	YE
Inventive step (IS)		NO
mventive step (15)	Claims NONE	YE
	Claims 1-46	NO
Industrial applicability (IA)	Claims 1-46	YES
	Claims NONE	NO NO
chaines. Bejai et al is applied for evidencin ame torch, as claimed. Note column 2, lines 57-7, prise a flame torch, as claimed. Claims 18-20 lack an inventive step under PCT A ter in view of the disclosed prior art. The disclosentional to planarize and polish work, as claimed		mung maternals such as photo resist imprise a plasma flame and hence, is that the torch in Selitser does wof Bejat, as set forth above, or evidencing that it is
ms 1-46 meet the criteria set out in PCT Article 3 nade or used in industry.	3(4), and thus have industrial applicability becaus	se the subject matter claimed can
	:	
	1	
	i	
	•	1

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

Û BLACK BORDERS
☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
☐ LINES OR MARKS ON ORIGINAL DOCUMENT
☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
□ OTHER:

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.